





Fig. 3A

HCV-1

GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCA  
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCA  
TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGATCAACCCG  
CTCAATGCCTGGAGATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCC  
TTGTGGTACTGCCTGATAGGGTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACG  
AATCCTAAACCTCAAAAAAAAAACAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTCCCGGGTG  
GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGGACGAG  
AAAGACTTCC (SEQ ID No.1)

HCV-BK

CGATTGGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTC  
TAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATAGTGGTCT  
GCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGATCAACCCGCTCAATGCC  
TGGAGATTTGGGCGTGCCCCGCGAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTAC  
TGCCTGATAGGGTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA  
CCTCAAAGAAAAACCAACGTAACACCAACCGCCGCCACAGGACGTCAAGTCCCGGGCGGTGGTCAGA  
TCGTTGGTGGAGTTTACCTGTTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCGCGCCCAGGAAGACTTC  
CGAGCGGTCTG (SEQ ID No.2)

HCV-J

TTGGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG  
CCATGGCGTTAGTATGAGTGTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCG  
GAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGATCAACCCGCTCAATGCCTGG  
AGATTTGGGCGTGCCCCGCGAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGC  
CTGATAGGGTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCATCATGAGCACAAATCCTAAACCT  
CAAAGAAAAACCAACGTAACACCAACCGCCGCCACAGGACGTTAAGTCCCGGGCGGTGGTCAGATCG  
TTGGTGGAGTTTACCTGTTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCGCGACTAGGAAGACTTCCGA  
GCGGTCGCAA (SEQ ID No.3)

Fig. 3B

R6

GGGCCAGCCCCGATTGGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACTACTGTCTTCACG  
CAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCTCCCGGGAGAGC  
CATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGATCAACC  
CGCTCAATGCCTGGAGATTTGGGCGTGCCCCGCGAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGG  
CCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCATCATGAGCA  
CAAATCCCAAACCCCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGG  
TGGTGGTCAGATCGTTGGTGGAGTTTACCTGTTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCGCGACT  
AGGAAGACTT (SEQ ID No.4)

R24

ACCCGCCCCCTAATAGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCA  
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCA  
TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGGAAGACCGGGTCCTTTCTTGATAAACCCG  
CTCTATGCCCGGCCATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCC  
TTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACA  
AATCCTAAACCTCAAAGAAAAACCCAAAGAAACACTAACCGTCGCCACAAGACGTTAAGTTTCCGGGGC  
GCGGCCAGATCGTTGGCGGAGTATACTTGTTGCCGCGTAGGGGCCCCAGATTGGGTGTGCGCACAGCAAG  
GAAGACTTCG (SEQ ID No.5)

S14J

ACCCGCCCCCTAATAGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCA  
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCA  
TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGGAAGACTGGGTCTTTCTTGATAAACCCA  
CTCTATGCCCGGCCATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCC  
TTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACA  
AATCCTAAACCTCAAAGAAAAACCCACAGAAACACTAACCGTCGCCACAAGACGTTAAGTTTCCGGGGC  
GCGGCCAGATCGTTGGCGGAGTATACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCACGACAAG  
GAAGACTTCG (SEQ ID No.6)

Fig. 3C

HCJ6

ACCCGCCCCCTAATAGGGGCGACACTCCGCCATGAACCACTCCCCTGTGAGGAAGTACTGTCTTCACGCAG  
AAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCAT  
AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGGAAGACTGGGTCCCTTTCTTGGATAAAACCCAC  
TCTATGCCCCGGTCATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTTGCGAAAGGCCT  
TGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA  
ATCCTAAACCTCAAAGAAAAACCAAAAGAAACACCAACCGTCGCCCACAAGACGTTAAGTTTCCGGGCGG  
CGGCCAGATCGTTGGCGGAGTATACTTGTTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCGCACAAGG  
AAGACTTCGG (SEQ ID No.7)

JFH1

ACCTGCCCCCTAATAGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAAGTACTGTCTTCACGCAG  
AAAGCGCCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCAT  
AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGGAAGACTGGGTCCCTTTCTTGGATAAAACCCAC  
TCTATGCCCCGGCCATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTTGCGAAAGGCCT  
TGTGGTACTGCCTGATAGGGCGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA  
ATCCTAAACCTCAAAGAAAAACCAAAAGAAACACCAACCGTCGCCCAGAAGACGTTAAGTTCCCGGGCGG  
CGGCCAGATCGTTGGCGGAGTATACTTGTTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCACGACAAGG  
AAACTTCGG (SEQ ID No.8)

JCH1

ACCCGCCCCCTAATAGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAAGTACTGTCTTCACGCA  
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCA  
TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGGAAGACTGGGTCCCTTTCTTGGATAAAACCCA  
CTCTATGCCCCGGCCATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTTGCGAAAGGCC  
TTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACA  
AATCCTAAACCTCAAAGAAAAACCCACAGAAACACTAACCGTCGCCCACAAGACGTTAAGTTTCCGGGCG  
GCGGCCAGATCGTTGGCGGAGTATACTTGTTGCCGCGCAGGGGCCCCAGATTGGGTGTGCGCACGACAAG  
GAAGACTTCG (SEQ ID No.9)

## Fig. 3D

JCH3

ACCCGCCCCCTAATAGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAG  
AAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCAT  
AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAGACTGGGTCTTTCTTGGATAAAACCCAC  
TCTATGCCCGGCCATTTGGGCGTGCCCCGCAAGACCGCTAGCCGAGTAGCGTTGGGTTGCGAAAGGCCCT  
TGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA  
ATCCTAAACCTCAAAGACAAACCAAAAGAAACACCAGCCGTCGCCCACAAGACGTTAGGTTTCCGGGCGG  
CGGCCAGATCGTTGGCGGAGTATACTTGTTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCGCGACAAGG  
AAGACTTCGG (SEQ ID No.10)

HCJ8

GCCCCCCCCCTGATGGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCA  
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCA  
TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTACCGGAAAGACTGGGTCTTTCTTGGATAAAACCCA  
CTCTATGTCCGGTCATTTGGGCACGCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTTGCGAAAGGCC  
TTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCATCATGAGCACA  
AATCCTAAACCTCAAAGAAAAACCAAAAGAAACACAAACCGCCGCCACAGGACGTTAAGTTCCCGGGTG  
GCGGTGAGATCGTTGGCGGAGTTTACTTGCTGCCGCGCAGGGGCCCCAGGTTGGGTGTGCGCGCGACAAG  
GAAGACTTCT (SEQ ID No.11)

Fig. 4A

Hcv-1.nc	1	--GCCAGCCCCCTGATGGGGCGGACACTCCACCATGATCACTCCCTGTTGAGGAACCTAC	58
Hcv-bk.nc	1	-----CGATGGGGGGGACACTCCACCATAGATCACTCCCTGTTGAGGAACCTAC	49
Hcv-j.nc	1	-----TTGGGGGGGACACTCCACCATAGATCACTCCCTGTTGAGGAACCTAC	46
R6.nc	1	GGGCCAGCCCCGATGGGGGGGACACTCCACCATAGATCACTCCCTGTTGAGGAACCTAC	60
R24.nc	1	--ACCCGCCCCCTAATAGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	58
S14j.nc	1	--ACCCGCCCCCTAATAGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	58
Hcj6.nc	1	ACCCGCCCTAATAGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	60
Jfh1.nc	1	--ACCTGCCCTA-ATAGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	57
Jch1.nc	1	--ACCCGCCCTA-ATAGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	57
Jch3.nc	1	--ACCCGCCCTA-ATAGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	57
Hcj8.nc	1	--GCCCGCCCCCTGATGGGGGGGACACTCCGCCATGAATCACTCCCTGTTGAGGAACCTAC	58
Hcv-1.nc	59	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	118
Hcv-bk.nc	50	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	109
Hcv-j.nc	47	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	106
R6.nc	61	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	120
R24.nc	59	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	118
S14j.nc	59	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	118
Hcj6.nc	61	CTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	120
Jfh1.nc	58	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	117
Jch1.nc	58	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	117
Jch3.nc	58	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	117
Hcj8.nc	59	TGCTTTACGCGAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCAGGCTCCAGG	118
Hcv-1.nc	119	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	178
Hcv-bk.nc	110	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	169
Hcv-j.nc	107	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	166
R6.nc	121	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	180
R24.nc	119	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	178
S14j.nc	119	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	178
Hcj6.nc	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	180
Jfh1.nc	118	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	177
Jch1.nc	118	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	177
Jch3.nc	118	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	177
Hcj8.nc	119	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCCGGAATTGCC	178

Fig. 4B

Hcv-1.nc	179	AGGACGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	238
Hcv-bk.nc	170	AGGACGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	229
Hcv-j.nc	167	AGGACGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	226
R6.nc	181	AGGACGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	240
R24.nc	179	GGGAGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	238
S14j.nc	179	GGGAGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	238
Hcj6.nc	181	AAGACTGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	240
Jfh1.nc	178	GGGAGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	237
Jch1.nc	178	GGGAGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	237
Jch3.nc	178	GGGAGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	237
Hcj8.nc	179	GGGAGACCGGGTCTTTCTTGGATGACCCGCTCAATGCGCTGGACATTTGGGGCTGCCC	238
Hcv-1.nc	239	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	298
Hcv-bk.nc	230	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	289
Hcv-j.nc	227	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	286
R6.nc	241	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	300
R24.nc	239	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	298
S14j.nc	239	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	298
Hcj6.nc	241	CAAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATAGGG	300
Jfh1.nc	238	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	297
Jch1.nc	238	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	297
Jch3.nc	238	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	297
Hcj8.nc	239	CCGCPAGACTGCTAGCCGAGTAGTGTGGGTGCGAAAGGCCCTTGTGGTACTGCCCTGATA	298
Hcv-1.nc	299	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	358
Hcv-bk.nc	290	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	349
Hcv-j.nc	287	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	346
R6.nc	301	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	360
R24.nc	299	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	358
S14j.nc	299	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	358
Hcj6.nc	301	TGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	360
Jfh1.nc	298	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	357
Jch1.nc	298	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	357
Jch3.nc	298	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	357
Hcj8.nc	299	GGGTGCTTGCAGTGCCCGGAGGTCTCGTAGACCGTGCAATGAGCACGAAATCCTAA	358



Fig. 4C

Hcv-1.nc	359	ACCTCAAAAAAAAAAACAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	418
Hcv-bk.nc	350	ACCTCAAGAAAAAACAAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	409
Hcv-j.nc	347	ACCTCAAGAAAAAACAAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	406
R6.nc	361	ACCCCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	420
R24.nc	359	ACCTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	418
S14j.nc	359	ACCTCAAGAAAAAACCAACGTAACACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	418
Hcj6.nc	361	TCAAGANAAACCAAGAAACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	420
Jfh1.nc	358	ACCTCAAGAAAAAACCAAGAAACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	417
Jch1.nc	358	ACCTCAAGAAAAAACCAAGAAACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	417
Jch3.nc	358	ACCTCAAGAAAAAACCAAGAAACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	417
Hcj8.nc	359	ACCTCAAGAAAAAACCAAGAAACCAACCGTCGCCCCACAGGACGTCAGTTCCCGGG	418
Hcv-1.nc	419	TGGCGGTCAGATCGTTGGTGGAGTTTACTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	478
Hcv-bk.nc	410	CGGTGGTCAGATCGTTGGTGGAGTTTACTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	469
Hcv-j.nc	407	CGGTGGTCAGATCGTTGGTGGAGTTTACTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	466
R6.nc	421	TGGTGGTCAGATCGTTGGTGGAGTTTACTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	480
R24.nc	419	CGCGGGCCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	478
S14j.nc	419	CGCGGGCCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	478
Hcj6.nc	421	CGGCCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	480
Jfh1.nc	418	CGCGGGCCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	477
Jch1.nc	418	CGCGGGCCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	477
Jch3.nc	418	CGCGGGCCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	477
Hcj8.nc	419	TGGCGGTCAGATCGTTGGCGGAGTATACCTGTGTGCCCGGCAAGGGGCCCTAGATTGGGTGT	478
Hcv-1.nc	479	GCGCGGACCGAGAAAGACTTTCC-----	500
Hcv-bk.nc	470	GCGCGGCGCCGAGGAAGACTTTCCGAGCGGTCCG----	500
Hcv-j.nc	467	GCGCGGCGACTAGGAAGACTTTCCGAGCGGTCCGAA	500
R6.nc	481	GCGCGGCGACTAGGAAGACTTT-----	500
R24.nc	479	GCGGACGACGAGGAAGACTTTCCG-----	500
S14j.nc	479	GCGGACGACGAGGAAGACTTTCCG-----	500
Hcj6.nc	481	GCGGACGAGGAGACTTTCCG	500
Jfh1.nc	478	GCGGACGACGAGGAAGACTTTCCG-----	500
Jch1.nc	478	GCGCGGCGACGAGGAAGCTTTCCG-----	500
Jch3.nc	478	GCGCGGCGACGAGGAAGACTTTCCG-----	500
Hcj8.nc	479	GCGCGGCGACGAGGAAGACTTTCT-----	500

## Fig. 5A

p H77J6S

GCGTGTCTCATGCCCCGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTA  
CCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTCCTGTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCTTTTTTTTTTCTTTCCCTTCTTTTTTCCCTTCTTT  
AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGA  
GTGCTGATACTGGCCTCTCTGCAGATCATGT (SEQ ID No.12)

R6

GTCCAGCTGGTTCGTGGCTGGTTACAGCGGGGAGACATATATCACAGCCTGTCTCGTGCCCGACCCCGC  
TGGTTCATGTTGTGCCTACTCTACTTTTCACTAGGGGTAGGCATCTACCTGCTCCCCAACCGATAAACGG  
GGAGCTAAACACTCCAGGCCAATAGGCCATTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
CCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATAC  
TGGCCTCTCTGCAGATCATGT (SEQ ID No.13)

R24L

TGGGCGGTGAAGACCAAGCTCAAACCTCACTCCATTGCCGGAAGCGCGCCTCCTGGATTTATCCAGCTGGT  
TCACTGTGCGCGCCGGCGGGGGCGACATTTATCACAGCGTGCCGCGTGCCCGACCCCGCTTATTACTCCT  
TGGCCTACTCCTACTTTTTGTAGGGGTAGGCCTTTTCTACTCCCCGCTCGGTAGAGCGGCACACATTAG  
CTAACTCCATAGCTAACTGTCCCTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGTTCCTTTCTCATTTCCTTCTTATCTTAATTACTTCCTTTCTGGTGGCTCC  
ATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGATTGCCGTAACGT  
GTATCTCTGCAGATCATGT (SEQ ID No.14)

R24S

CCTGGATTTATCCAGCTGGTTCCTGTCGCGCGCCGGCGGGGGCGACATTTATCACAGCGTGCCGCGTGCC  
CGACCCCGCTTATTACTCCTTGGCCTACTCCTACTTTTTGTAGGGGTAGGCCTTTTCTACTCCCCGCTC  
GGTAGAGCGGCACACATTAGCTAACTCCATAGCTAACTGTCCCTTTTTTTTTTTTTTTTTTTTTTGTTCCTTT  
CCTTCTCATTTCCTTCTTATCTTAATTACTTTCTTTCTGGTGGCTCCATCTTAGCCCTAGTCACGGCTA  
GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGATTGCCGTAACGTGGTATCTCTGCAGATCATGT  
(SEQ ID No.15)

Fig. 5B

HCJ6CH

TTTATCCAGTTGGTTTACCGTCGGCGCCGGCGGGGGCGACATTTATCACAGCGTGTGCGGTGCCCCGACCC  
CGCTTATTACTCCTTAGCCTACTCCTACTTTTCGTAGGGGTAGGCCTCTTTTACTCCCCGCTCGGTAGA  
GCGGCACACATTAGCTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTCCTTCCTTCTCACCTTCTTTTACTTCT  
TTCCTGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGA  
GAGTGCCGTA (SEQ ID No.16)

JFH1

GGACTTATCCAGTTGGTTCACCGTCGGCGCCGGCGGGGGCGACATTTTTCACAGCGTGTGCGCGCCCCGA  
CCCCGCTCATTACTCTTCGGCCTACTCCTACTTTTCGTAGGGGTAGGCCTCTTCCTACTCCCCGCTCGGT  
AGAGCGGCACACACTAGGTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTCTTCTTCCCTTCTCATCTTATTCTACTTTCTTTCTT  
GGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG  
CCGTAAGTGGTCTCTCTGCAGATCATGT (SEQ ID No.17)

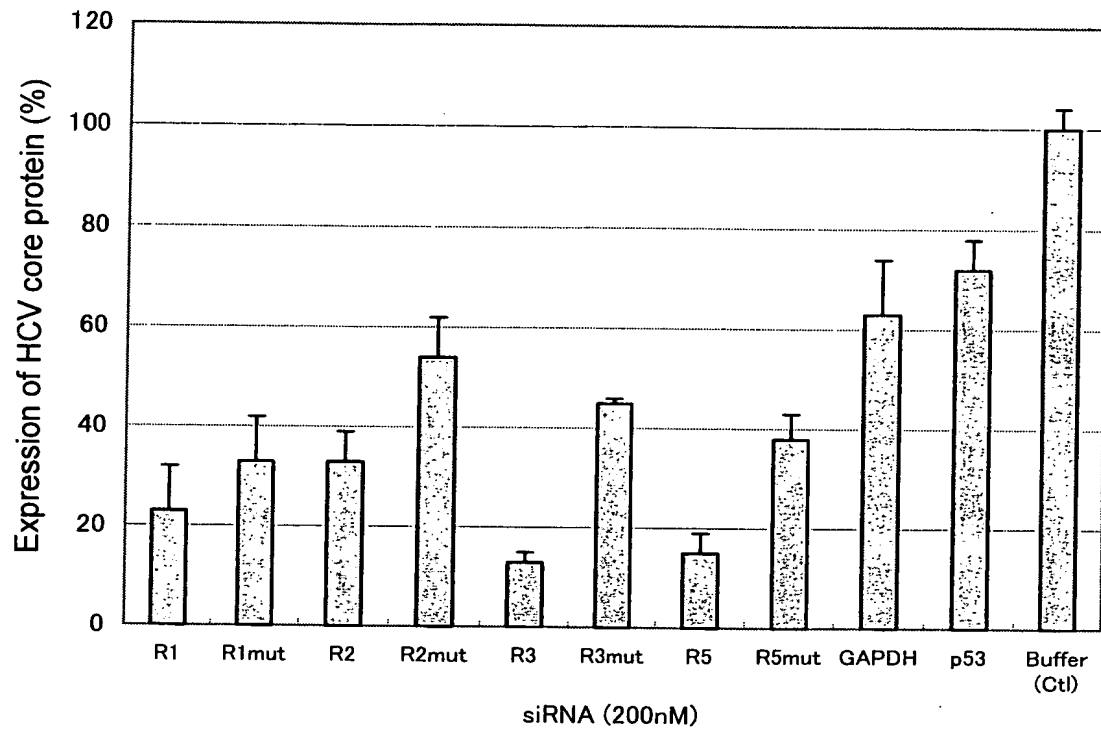
JCH1

GGATTTGTCCAGTTGGTTTACCGTCGGCGCCGGCGGGGGCGACATTTATCACAGCGTGTGCGGTGCCCCGA  
CCCCGCTATTACTCCTTAGCCTACTCCTACTTTCTGTAGGGGTAGGCCTCTTCCTACTCCCCGCTCGAT  
AGAGCGGCACACATTAGCTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTTTTTTTTTTTTTTTTTTCCCTCTTCTTCCCTTCTCATCTTATTCTACTTTCTTTCTTGGTG  
GCTCCATCTTAGCCCTGGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCCGT  
AACTGGTCTCTCTGCAGATCATGT (SEQ ID No.18)

2b\_AB030907

TAGATTTATCCGGGTGGTTCACCGTGGGCGCCGGCGGGGGCGACATCTTTCACAGCGTGTGCGCATGCCCCG  
ACCCCGCCTATTACTCCTTTGCCTACTCCTACTTAGCGTAGGAGTAGGCATCTTTTACTCCCCGCTCGG  
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ACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCCGTAAGTGGTCTCTCTGCAGATC  
ATGT (SEQ ID No.19)

Fig. 6



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Fig. 7

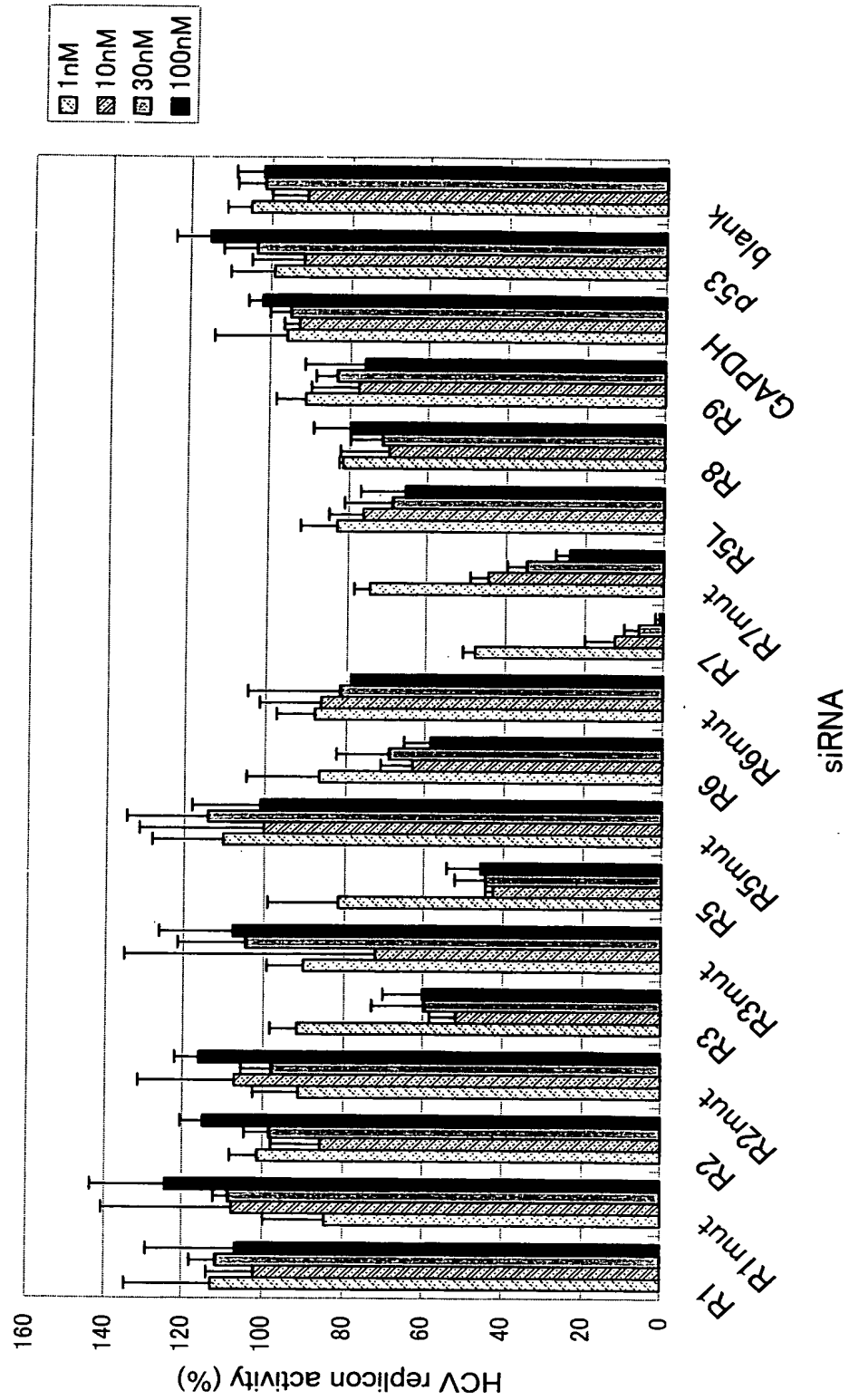


Fig. 8

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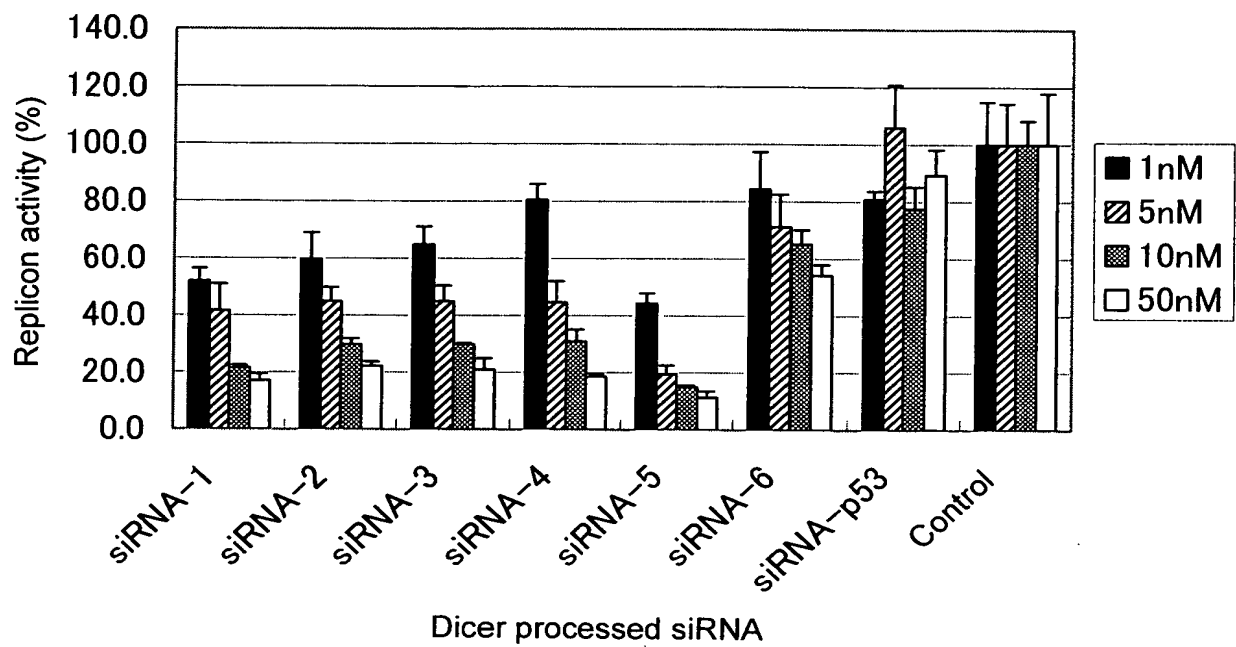


Fig. 9

